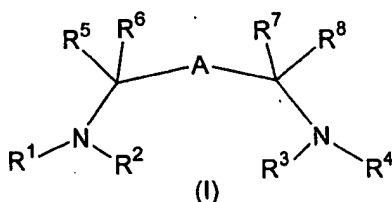


Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

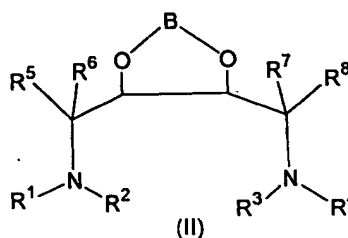
1. (Currently Amended) A chiral catalyst comprising the reaction product of a ruthenium compound, a chiral bis(phosphine) selected from P-Phos, tol-P-Phos or xyl-P-Phos and a chiral diamine of formula (I)



in which R^1 , R^2 , R^3 or R^4 are independently hydrogen, a saturated or unsaturated alkyl, or cycloalkyl group, an aryl group, a urethane or sulphonyl group and R^5 , R^6 , R^7 or R^8 are independently hydrogen, a saturated or unsaturated alkyl or cycloalkyl group, or an aryl group, at least one of R^1 , R^2 , R^3 or R^4 is hydrogen and A is a linking group comprising one or two substituted or unsubstituted carbon atoms.

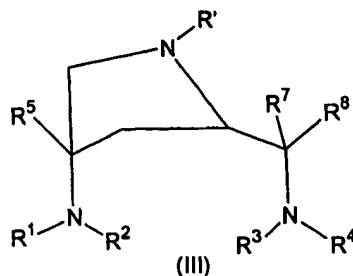
2. (Canceled)
3. (Currently Amended) A catalyst according to claim 1 ~~or claim 2~~ wherein R^1 , R^2 , R^3 and R^4 are the same or different and are selected from hydrogen, methyl, ethyl, isopropyl, cyclohexyl, phenyl or 4-methylphenyl groups.
4. (Currently Amended) A catalyst according to claim 1 ~~or claim 2~~ wherein R^1 and R^2 are linked or R^3 and R^4 are linked so as to form a 4 to 7-membered ring structure incorporating the nitrogen atom.
5. (Currently Amended) A catalyst according to ~~any one of claims 1 to 4~~ claim 1 wherein R^5 , R^6 , R^7 and R^8 are the same or different and are selected from hydrogen, methyl, ethyl, propyl, iso-propyl, butyl, iso-butyl, sec-butyl, tert-butyl, cyclohexyl or substituted or unsubstituted phenyl or naphthyl groups.

6. (Currently Amended) A catalyst according to ~~any one of claims 1 to 4~~ claim 1 wherein one or more of R^5 , R^6 , R^7 or R^e form one or more ring structures with the linking group A.
7. (Currently Amended) A catalyst according to ~~any one of claims 1 to 6~~ claim 1 wherein a substituting group on the carbon atom of linking group A is alkyl (C1-C20), alkoxy (C1-C20) or amino or forms one or more ring structures incorporating one or more carbon atoms making up the linking group.
8. (Currently Amended) A catalyst according to ~~claim 1 or claim 2~~ wherein the chiral diamine is of formula (II)



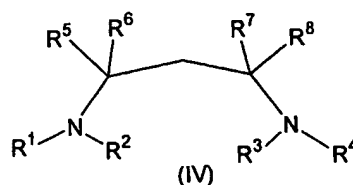
wherein B is a linking group comprising one or two substituted or unsubstituted carbon atoms.

9. (Original) A catalyst according to claim 8 wherein R^1 , R^2 , R^3 , R^4 are hydrogen, R^5 , R^6 , R^7 and R^8 are hydrogen or alkyl groups and B comprises $C(CH_3)_2$ or $(CH_3)(OCH_3)C-C(CH_3)(OCH_3)$.
10. (Currently Amended) A catalyst according to ~~claim 8 or claim 9~~ wherein the chiral diamine is selected from 3-Aminomethyl-5-6-dimethoxy-5-6-Dimethyl[1,4]-dioxan-2-yl]-methylaniline (DioBD) or 2,3-O-isopropylidenebutane 1,4 diamine (DAMTAR).
11. (Currently Amended) A catalyst according to ~~claim 1 or claim 2~~ wherein the chiral diamine is of formula (III)

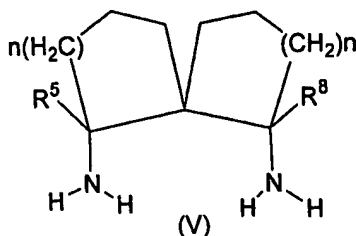


wherein R' is a protecting group.

12. (Original) A catalyst according to claim 11 wherein R¹, R² and R⁵ are hydrogen, R³ and R⁴ are hydrogen or alkyl, R⁷ and R⁸ are hydrogen, alkyl or aryl and R' is selected from an alkyl, aryl, carboxylate, amido or sulphonate protecting group.
13. (Currently Amended) A catalyst according to claim 11 ~~or claim 12~~ wherein the chiral diamine is 4-Amino-2-aminomethylpyrrolidine-1-carboxylic acid tent-butyl ester (PyrBD).
14. (Currently Amended) A catalyst according to claim 1 ~~or claim 2~~ wherein the chiral diamine is of formula (IV)

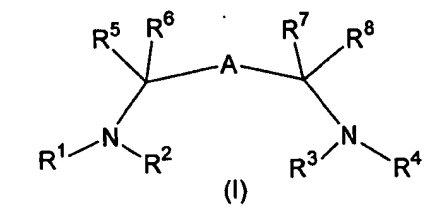


15. (Original) A catalyst according to claim 14 wherein R¹, R², R³, R⁴, R⁶, R⁷ are hydrogen and R⁵ and R⁸ are aryl or substituted aryl groups.
16. (Original) A catalyst according to claim 14 ~~or claim 15~~ wherein the chiral diamine is Diphenyl-1,3-propanediamine (Dppn).
17. (Currently Amended) A catalyst according to claim 1 ~~or claim 2~~ wherein the chiral diamine is of formula (V).



wherein $n = 1$ or 2 .

18. (Original) A catalyst according to claim 17 wherein R^5 and R^8 are hydrogen.
19. (Currently Amended) The use of catalysts of claims 1 to 18 A method for the asymmetric hydrogenation of ketones and imines comprising contacting a ketone or imine with a strong base and a chiral catalyst comprising the reaction product of a ruthenium compound, a chiral bis(phosphine) selected from P-Phos, tol-P-Phos or xyl-P-Phos and a chiral diamine of formula (I)



in which R^1 , R^2 , R^3 or R^4 are independently hydrogen, a saturated or unsaturated alkyl, or cycloalkyl group, an aryl group, a urethane or sulphonyl group and R^5 , R^6 , R^7 or R^8 are independently hydrogen, a saturated or unsaturated alkyl or cycloalkyl group, or an aryl group, at least one of R^1 , R^2 , R^3 or R^4 is hydrogen and A is a linking group comprising one or two substituted or unsubstituted carbon atoms.

20. (Original) The use of catalysts method according to claim 19 for the hydrogenation of, wherein the ketone is an alkyl-ketones ketone of formula $RCOR'$ in which R and R' are substituted or unsubstituted, saturated or unsaturated C1-C20 alkyl or cycloalkyl which may be linked and form part of a ring structure.